



OPERATING INSTRUCTIONS
AND PARTS LIST FOR

PARKS

12" THICKNESS PLANER

IMPORTANT: This list is valuable. It will enable you to secure prompt service on replacement parts and avoid unnecessary correspondence with our factory. We suggest that you keep it filed away with other valuable papers.

THE PARKS WOODWORKING MACHINE COMPANY

Manufacturers of Quality Woodworking Machines Since 1887

Instructions For Operation and Maintenance of The PARKS 12" THICKNESS PLANER

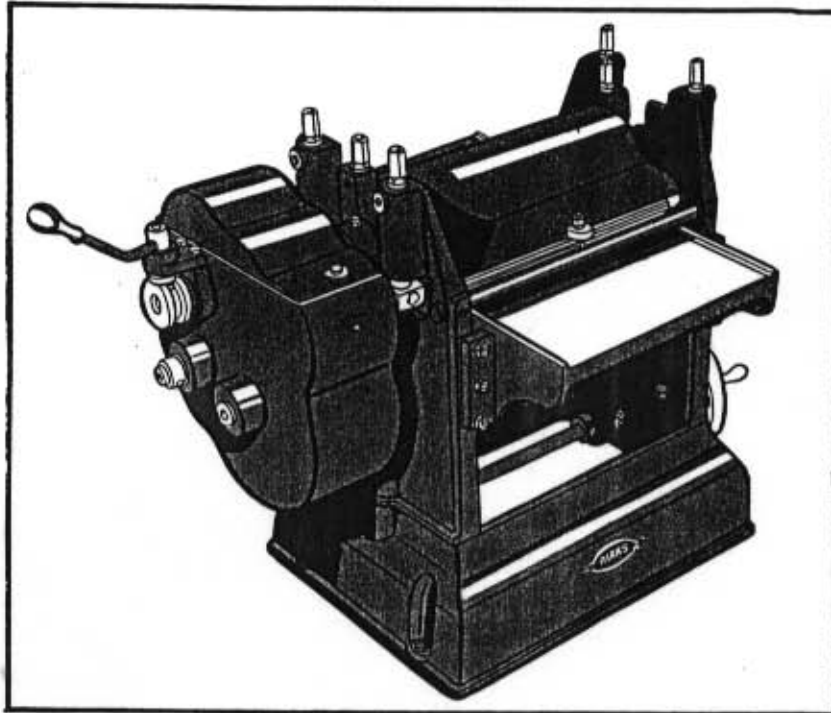


Figure No. 1

Your Parks 12" Planer is shipped complete (without motor) in one crate. Adjustments are made at the factory. It need only be connected to a motor to start using.

Motor and Pulley Recommendations

Planer is designed to be used with a 110/220 volt, 60 cycle single phase, or a 220/440 volt, 60 cycle three phase motor. A 1 h.p. motor is recommended for light duty, and a 2 h.p. for heavy duty.

When a 1750 RPM motor is used, an 8" pulley should be used on the motor shaft to obtain the proper RPM (4000 to 4200) at the cutterhead. If a 3450 RPM motor is used, a 4" pulley should be used. Use of double grooved pulleys and belts is advisable, when heavy work is required.

Lubrication

Your Planer is a precision built machine and should be given the best of care. If kept clean and properly lubricated, it will give many years of trouble free service.

The gear box should be lubricated with $\frac{1}{2}$ to 1 pound of transmission grease. Any one of the following is suitable: Standard Oil Indiana Superia No. 39, Texaco Star grease No. 00, or Shell Unedo cup grease No. 1.

The ball bearings are grease packed at the factory and are alemite fitted. We suggest lubricating about twice a year. Table roll bearings and feed roll bearings should be oiled each day if the Planer is used continuously. Automobile engine oil S.A.E. 30 is recommended.

Adjustments

If it becomes necessary to re-set the feed rolls or pressure bar, these steps should be followed (Be sure Planer is not running):

- 1—Place a board on each side of the Planer table and raise the table until the knives are touching the boards.
- 2—Lower the two feed rolls and pressure bar until they also touch the two boards. The feed rolls, knives and pressure bar should now be even and parallel.
- 3—Remove the boards and lower the fluted in-feed roll $\frac{1}{4}$ turn of the adjusting studs. Lower the smooth out-feed roll $\frac{1}{4}$ turn.
- 4—When the pressure bar is set too low it will prevent the board from following through. It will then be necessary to raise the bar slightly.

5—For finish work be sure the table rolls are not more than $\frac{1}{64}$ " above the table at all times.

Capacity

This machine will plane material up to 12 inches wide by 4 inches thick. Maximum cut is $\frac{3}{4}$ inch. It will take pieces as short as 6 inches and as thin as $\frac{1}{16}$ ".

Resetting Planer Knives

The knives can be set in the following manner:

After they have been reground and are uniform, they can be reset in the head fairly accurately by placing a shim under the length of each knife in the bottom of the slot in the head. These shims can be pieces of wire 12" long and small in diameter. The thickness corresponds more or less to the amount of stock removed from the knife in regrinding.

The other method consists of setting the individual knives to the table of the machine. This can be done by having the set screws that lock the gib against the knives, drawn up just firm enough to hold the knives. This is done on all three knives. Then you place two pieces of hard wood of uniform thickness on the table at either end of the head. The table is then raised so that the knife which is set farthest out of the head, is just scraping the wood. The other knives are then raised to the level of the highest knife. This can be done by tapping lightly with something similar to a center punch at the base of the knives on either side of the head.

Be sure and lock the knives securely before running the machine.

If an indicator on a stand is available, a third method may be used. This consists of setting the indicator point directly above the highest part of the cutting circle of the knives on the top of the head. Take a reading on one end of the knife and raise the other end of the knife to indicate the same. The other two knives should be tapped up to the same reading. *Be sure and lock all knives securely.*

Instructions For Ordering Parts

All parts illustrated in Figures No. 2 and No. 3 and listed on the following pages under part numbers can be ordered from the factory. Screws, nuts, washers, etc., are standard items and may be purchased locally by noting the specifications listed for these parts.

All prices are subject to change without notice.

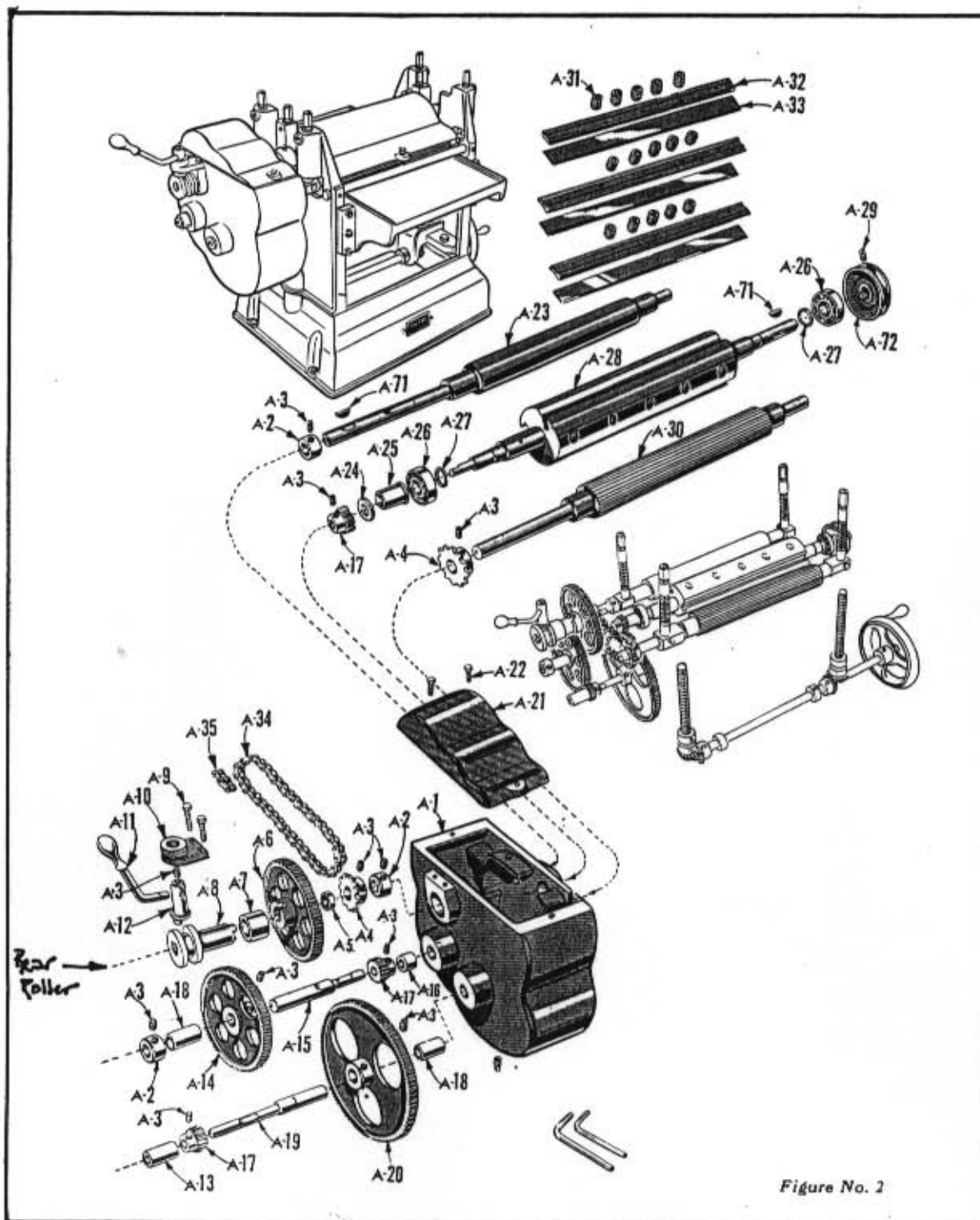


Figure No. 2

Part No.	Name of Part	Prepaid selling price each	Part No.	Name of Part	Prepaid selling price each	Part No.	Name of Part	Prepaid selling price each
A-1	Gear Box (casting only)....	21.64	A-13	Lower gear shaft bearing		A-26	Head ball bearing No.	
A-2	Shaft collar ¾" bore (3 req.) .....	.88		½" bore	3.20		3204 (2 req.)	4.00
A-3	Hollow head set screw ¾" x ¾" — ⅜-16 thread....	.34	A-14	88 tooth gear, plain hub....	6.40	*A-27	Head shaft spacer .....	.94
A-4	12 tooth sprocket (2 req.)	2.66	A-15	Short gear shaft	2.20	A-28	12" Head with shaft.....	59.98
A-5	Shaft spacer .....	.94	A-16	Gear shaft bear'g ½" bore	3.20	A-29	Slotted head set screw ⅝" x ⅝" — ⅝-18 thread....	.20
A-6	88 tooth gear, slotted hub	6.40	A-17	20 tooth gear (3 req.).....	2.20	A-30	Fluted feed roll	16.00
A-7	Throw out sleeve bearing 1½" bore	1.98	A-18	Gear shaft bearing ¾" bore (2 req.).....	3.20	A-31	Hollow head set screw ½" (used on head).....	.34
A-8	Throw out sleeve	9.48	A-19	Long gear shaft.....	2.58	A-32	12" Chip breaker (3 req.)	2.58
A-9	Eccentric bracket studs (2 req.) .....	.80	A-20	128 tooth gear	9.38	A-33	12" High speed knives (set of 3).....	15.00 12.00
A-10	Eccentric bracket	1.68	A-21	Gear box cover	4.74	A-34	Complete roller chain.....	3.10
A-11	Throw out handle	3.10	A-22	Gear box cover studs (2 req.) .....	.42	A-35	Connecting link for chain .....	.56
A-12	Throw out eccentric	3.70	A-23	Smooth feed roll	14.80			
			A-24	Felt washer .....	.20			
			A-25	Head shaft sleeve	1.00			

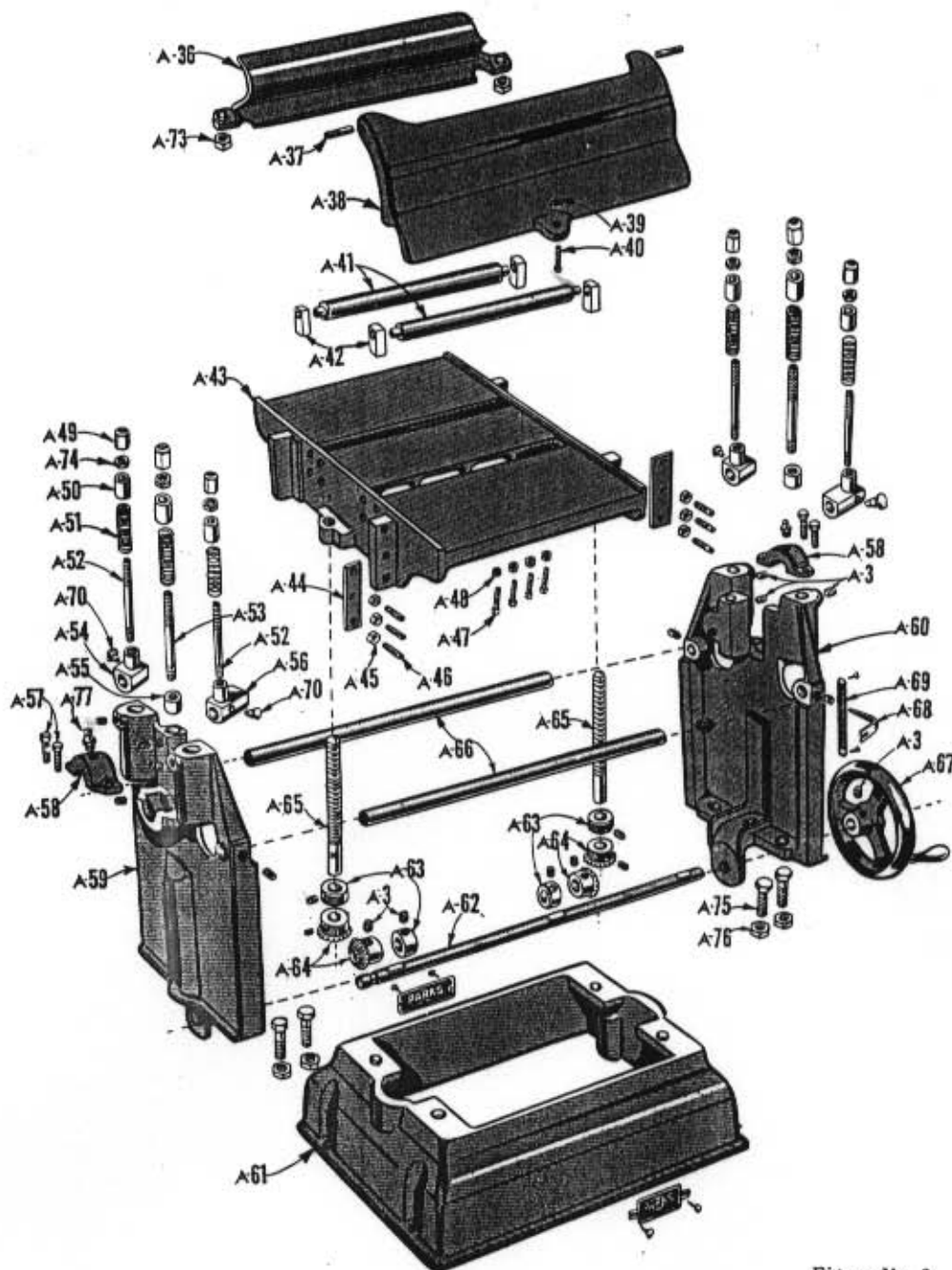


Figure No. 3

Part No.	Name of Part	Prepaid selling price each	Part No.	Name of Part	Prepaid selling price each	Part No.	Name of Part	Prepaid selling price each
A-36	Pressure bar	8.50	A-49	1/4" hex nut 1" long 3/8-16 thread	.66	A-59	Left side casting	42.22
A-37	Hood stud (2 req.)	.34	A-50	Spring collar (6 req.)	.64	A-60	Right side casting	41.78
A-38	Shaving hood	13.30	A-51	Compression spring (6 req.)	.50	A-61	Base	28.24
A-39	Lock nut for hood	.34	A-52	Roll bearing stud (4 req.)	1.46	A-62	Elevating shaft	2.42
A-40	Adjusting stud for hood	.80	A-53	Pressure bar stud (2 req.)	1.46	A-63	Shaft collar 1/2" (4 req.)	.86
A-41	Table roller (2 req.)	4.82	A-54	Smooth feed roll bearing (2 req.—specify r or l)	1.48	A-64	Bevel gear L102 (4 req.)	2.38
A-42	Table roll bearing (4 req.)	1.42	A-55	Stud collar (2 req.)	.50	A-65	Elevating screw (2 req.— specify right or left)	2.20
A-43	Table	58.32	A-56	Fluted feed roll bearing (2 req.—specify r or l)	2.20	A-66	Column tie rod (2 req.)	2.64
A-44	Table gib (2 req.)	2.20	A-57	Bearing cap studs (2 req.)	.80	A-67	Hand wheel and handle	6.70
A-45	Lock nut for table gib	.50	A-58	Bearing cap (specify right or left)	5.32	A-68	Depth indicator	.42
A-46	Lock nut stud	.34				A-69	Depth scale	.34
A-47	Table roller adjusting stud	.80				A-70	1/4" oiler (4 req.)	.34
A-48	Lock nut for table roller	.34						

The following parts shown on figures 2 and 3 are standard and can be purchased locally

A-71	Half moon key 1/8"	.20	A-74	3/4" x 1 1/8" jam nut 1/8" thick 3/8-16 thread	.50	A-76	Hex nuts 1/2" x 1 1/8" x 3/8" 3/8-13 thread	.22
A-72	3" V pulley 3/4" bore	1.44	A-75	Hex head bolts 1/2" x 1 1/4" 1/2-13 thread	.22	A-77	Alemite fitting	.34
A-73	3/4" x 1 1/8" jam nut 1/8" thick 3/8-16 thread	.50						